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Ruffa

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[54]	FOR FLOW FIELDS		
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ACOUSTICAL CAVITATION SUDDESSON

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ABSTRACT

A cavitation suppressor using acoustic energy to suppress flow field cavitation is provided. The suppressor system has a plurality of pressure transducers located along the outer surface of a sonar dome. These transducers are powered through a controller which receives flow data, that is, pressure fluctuations in the flow field and in response operates acoustic arrays located aft of the pressure transducers. The controller provides a sonic impulse having frequency and pulse duration selectant to reduce cavitation in the flow field around the sonar dome.

5 Claims, 5 Drawing Sheets

